

CLAIMS

What is claimed is:

1. A burner assembly comprising:
 - a blower having an inlet;
 - a gate plate moveable relative to the inlet and adapted to control combustion air entering the blower from the inlet; and
 - a seal assembly disposed between the gate plate and the inlet.
2. The burner assembly of claim 1, wherein the gate plate is moveable generally parallel to the inlet.
3. The burner assembly of claim 1, the seal assembly comprising a sealing element attached to the gate plate.
4. The burner assembly of claim 1, the seal assembly comprising:
 - a flange mounted over the inlet; and
 - a sealing gasket mounted over the flange.
5. The burner assembly of claim 4, the seal assembly further comprising a mounting gasket disposed between the flange and the inlet.
6. The burner assembly of claim 1, the seal assembly comprising:
 - a base plate having an air flow aperture in airflow communication with the inlet, the base plate being attached to the blower; and
 - a sealing element attached to the gate plate.

7. The burner assembly of claim 6, the seal assembly further comprising a mounting gasket disposed between the base plate and the blower.
8. The burner assembly of claim 1, the seal assembly comprising:
 - a base plate having an air flow aperture in airflow communication with the inlet, the base plate being attached to the blower;
 - a flange mounted over the aperture; and
 - a sealing gasket mounted over the flange.
9. The burner assembly of claim 8, the seal assembly further comprising a first mounting gasket disposed between the base plate and the blower, and a second mounting gasket disposed between the flange and the base plate.
10. The burner assembly of claim 1, further comprising an actuator operationally coupled to the gate plate.
11. The burner assembly of claim 10, further comprising a controller adapted to control the actuator.
12. A damper for a burner assembly, the damper comprising:
 - a base plate mounted on the burner assembly and having an aperture sized to communicate with an air inlet of the burner assembly;
 - a gate plate moveable relative to the inlet and adapted to control the supply of combustion air entering the inlet from the aperture; and
 - a seal assembly disposed between the base plate and the gate plate.

13. The damper of claim 12, wherein the gate plate is moveable generally parallel to the base plate.
14. The damper of claim 12, the seal assembly comprising a sealing element disposed on the gate plate.
15. The damper of claim 12, the seal assembly comprising:
 - a flange mounted over the aperture; and
 - a sealing gasket mounted over the flange.
16. The damper of claim 15, the seal assembly further comprising a first mounting gasket disposed between the base plate and the blower, and a second mounting gasket disposed between the flange and the base plate.
17. The damper of claim 12, further comprising an actuator operationally coupled to the gate plate to move the gate plate relative to the base plate.
18. The damper of claim 17, further comprising a controller adapted to control the actuator.
19. A burner assembly, comprising:
 - a blower having an air inlet;
 - a base plate mounted on the inlet and having an aperture sized to communicate with the inlet; and
 - a gate plate moveable generally parallel to the inlet and adapted to control combustion air entering the inlet from the aperture; and
 - a seal assembly disposed between the base plate and the gate plate.

20. The burner assembly of claim 19, the seal assembly comprising a sealing element disposed on the gate plate.
21. The burner assembly of claim 20, the seal assembly comprising:
 - a flange mounted over the aperture; and
 - a sealing gasket mounted over the flange.
22. The burner assembly of claim 21, the seal assembly further comprising a first mounting gasket disposed between the base plate and the blower, and a second mounting gasket disposed between the flange and the base plate
23. The burner assembly of claim 19, further comprising an actuator operationally coupled to the gate plate to move the gate plate relative to the base plate.
24. The burner assembly of claim 23, further comprising a controller adapted to control the actuator.